

## Datasheet: MCA6187B

<b>Description:</b>	MOUSE ANTI HUMAN C-REACTIVE PROTEIN:Biotin
<b>Specificity:</b>	C-REACTIVE PROTEIN
<b>Other names:</b>	CRP
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	F03-2C7
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1.0 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG conjugated to Biotin - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	<i>E. coli</i> derived recombinant human full length C-Reactive Protein (Phe17-Pro224)

**External Database  
Links**

**UniProt:**

[P02741](#)    [Related reagents](#)

**Entrez Gene:**

[1401](#)    CRP    [Related reagents](#)

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**Synonyms**

PTX1

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**Fusion Partners**

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

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**Specificity**

**Mouse anti Human C-reactive protein antibody, clone F03-2C7** recognizes, C-reactive protein (CRP). CRP is a member of the pentaxin family of proteins which target and activate various stages of the complement system. CRP is known to exist in 2 states, either as a monomer (mCRP) or as a pentamer (pCRP), where the pentamer is composed of 5 nearly identical subunits. The monomeric and pentameric forms have similar functions, but their relative abundance differs across various tissues. For example, pCRP is present in plasma, while mCRP is present mostly in the surface of damaged cells and platelets ([Wu et al. 2015](#)). In humans, levels of CRP increases 1,000-fold within 24 to 48 hours of infection, inflammation or tissue damage ([Black et al. 2004](#)).

In response to infection or tissue damage Interleukin-6, Interleukin-1 beta or glucocorticoids induce hepatocyte production of CRP. Available CRP can then detect foreign invading microorganisms, by binding carbohydrate structures. CRP is also able to bind modified low density lipoproteins and cells undergoing cell death, to assist with phagocytosis and clearance mechanisms. This is directly co-ordinated via CRP and other pentaxin proteins to prevent excessive tissue damage and clearance of any injured tissue components.

This biotinylated Mouse anti Human C-reactive protein antibody, clone F03-2C7 (MCA6187B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human C-reactive protein antibody, clone F01-1G4 ([MCA6186GA](#)) as the capture antibody.

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6187B>  
10041

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Useful Reagents

[MOUSE ANTI HUMAN C-REACTIVE PROTEIN \(MCA6186GA\)](#)

### ELISA Matched Pair - Capture Antibody

[MOUSE ANTI HUMAN C-REACTIVE PROTEIN \(MCA6186GA\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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